

### ABSTRACT OF THE DISCLOSURE

A method of managing the change of time slot allocation in classical MS-SP ring networks.

In two-fiber rings, the criterion for choosing the low priority AU-4 to be used for the

protection in case of simple failure can be summarized as follows: given an STM-n ring line

5 signal, where "n" is the overall number of the handled channels, there results that LP AU-

$4\#X_{LP} = AU-4 \#(X_{HP} + n/2)$ , where X is the HP AU-4 index in the failed span. In four-fiber

rings,  $AU-4 LP = AU-4 \#X HP$ . Should two or more failures occur, criteria are provided for

selecting one of the failed spans and tracing the problem back to the case of single two/four

fiber ring failure.